



~0017007.txt
SEQUENCE LISTING

<110> Biochemie Gesellschaft m.b.H.

<120> Production of proteins

<130> G-31109/A/BCK

<140> PCT/EP00/07642

<141> 2000-08-07

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 168

<212> PRT

<213> Pestivirus sp.

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Met Glu Leu Asn His Phe Glu Leu Leu Tyr Lys Thr Ser Lys Gln Lys
1 5 10 15
Pro Val Gly Val Glu Glu Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu
20 25 30
Phe Gly Asn Pro Ser Glu Val His Pro Gln Ser Thr Leu Lys Leu Pro
35 40 45
His Asp Arg Gly Arg Gly Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro
50 55 60
Arg Lys Gly Asp Cys Arg Ser Gly Asn His Leu Gly Pro Val Ser Gly
65 70 75 80
Ile Tyr Ile Lys Pro Gly Pro Val Tyr Tyr Gln Asp Tyr Thr Gly Pro
85 90 95
Val Tyr His Arg Ala Pro Leu Glu Phe Phe Asp Glu Ala Gln Phe Cys
100 105 110
Glu Val Thr Lys Arg Ile Gly Arg Val Thr Gly Ser Asp Gly Lys Leu
115 120 125
Tyr His Ile Tyr Val Cys Val Asp Gly Cys Ile Leu Leu Lys Leu Ala
130 135 140
Lys Arg Gly Thr Pro Arg Thr Leu Lys Trp Ile Arg Asn Phe Thr Asn
145 150 155 160
Cys Pro Leu Trp Val Thr Ser Cys
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<210> 2

<211> 168

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligo-histidine purification aid combined with

sequence of Pestivirus

<400> 2

Met Ala Ser His His His His His His His Pro Val Gly Val Glu Glu
 1 5 10 15
 Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu Phe Gly Asn Pro Ser Glu
 20 25 30
 Val His Pro Gln Ser Thr Leu Lys Leu Pro His Asp Arg Gly Arg Gly
 35 40 45
 Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro Arg Lys Gly Asp Cys Arg
 50 55 60
 Ser Gly Asn His Leu Gly Pro Val Ser Gly Ile Tyr Ile Lys Pro Gly
 65 70 75 80
 Pro Val Tyr Tyr Gln Asp Tyr Thr Gly Pro Val Tyr His Arg Ala Pro
 85 90 95
 Leu Glu Phe Phe Asp Glu Ala Gln Phe Cys Glu Val Thr Lys Arg Ile
 100 105 110
 Gly Arg Val Thr Gly Ser Asp Gly Lys Leu Tyr His Ile Tyr Val Cys
 115 120 125
 Val Asp Gly Cys Ile Leu Leu Lys Leu Ala Lys Arg Gly Thr Pro Arg
 130 135 140
 Thr Leu Lys Trp Ile Arg Asn Phe Thr Asn Cys Pro Leu Trp Val Thr
 145 150 155 160
 Ser Cys Ser Asp Asp Gly Ala Ser
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<210> 3

<211> 16

<212> PRT

<213> Pestivirus sp.

<400> 3

Met Glu Leu Asn His Phe Glu Leu Leu Tyr Lys Thr Ser Lys Gln Lys
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<210> 4

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
 oligo-histidine purification aid

<400> 4

Met Ala Ser His His His His His His
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<210> 5

<211> 37

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 5
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<210> 6
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide

<400> 6
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<210> 7
<211> 593
<212> DNA
<213> Homo sapiens

<400> 7
ataattacta gttgtgctcc agtacctcca ggtgaagatt ctaaagatgt agccgccccca 60
cacagacagc cactcacctc ttcagaacga attgacaaac aaattcggta catcctcgac 120
ggcatctcag ccctgagaaa ggagacatgt aacaagagta acatgtgtga aagcagcaaa 180
gaggcactgg cagaaaaaca cctgaacctt ccaaagatgg ctgaaaaaga tggatgcttc 240
caatctggat tcaatgagga gacttgcttg gtaaaaaatca tcactgggtct tttggagttt 300
gaggtatacc tagagtacct ccagaacaga tttgagagta gtgagggaaca agccagagct 360
gtgcagatga gtacaaaagt cctgatccag ttcttgcaga aaaaggcaaa gaatctagat 420
gcaataacca cccctgaccc aaccacaaat gccagcctgc tgacgaagct gcaggcacag 480
aaccagtggc tgcaggacat gacaactcat ctcatcttgc gcagctttaa ggagttcctg 540
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<213> Artificial Sequence

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Oligo-histidine purification aid combined with
sequences of Pestivirus and Homo sapiens

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Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu Phe Gly Asn Pro Ser Glu
20 25 30
Val His Pro Gln Ser Thr Leu Lys Leu Pro His Asp Arg Gly Arg Gly
35 40 45
Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro Arg Lys Gly Asp Cys Arg
50 55 60
Ser Gly Asn His Leu Gly Pro Val Ser Gly Ile Tyr Ile Lys Pro Gly
Page 3

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<210> 9
<211> 40
<212> DNA
<213> Artificial Sequence

Page 4

<400> 9
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<212> DNA
<213> Artificial Sequence

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<211> 533
<212> DNA
<213> Homo sapiens

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tttgatttc cccaggagga gtttggcaac cagttccaaa aggctgaaac catccctgtc 180
ctccatgaga tgatccagca gatcttcaat ctcttcagca caaaggactc atctgctgct 240
tgggatgaga ccctcctaga caaattctac actgaactct accagcagct gaatgacctg 300
gaagcctgtg tgatacaggg ggtgggggtg acagagactc ccctgatgaa ggaggactcc 360
attctggctg tgaggaaata cttccaaaga atcactctct atctgaaaga gaagaaatac 420
agcccttggt cctggggaggt tgtcagagca gaaatcatga gatctttttc tttgtcaaca 480
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<210> 12
<211> 327
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligo-histidine purification aid combined with
sequences of Pestivirus and Homo sapiens

<400> 12
Met Ala Ser His His His His His His Pro Val Gly Val Glu Glu
1 5 10 15
Pro Val Tyr Asp Thr Ala Gly Arg Pro Leu Phe Gly Asn Pro Ser Glu
20 25 30
Val His Pro Gln Ser Thr Leu Lys Leu Pro His Asp Arg Gly Arg Gly
35 40 45
Asp Ile Arg Thr Thr Leu Arg Asp Leu Pro Arg Lys Gly Asp Cys Arg
50 55 60
Ser Gly Asn His Leu Gly Pro Val Ser Gly Ile Tyr Ile Lys Pro Gly
65 70 75 80
Pro Val Tyr Tyr Gln Asp Tyr Thr Gly Pro Val Tyr His Arg Ala Pro
85 90 95
Leu Glu Phe Phe Asp Glu Ala Gln Phe Cys Glu Val Thr Lys Arg Ile
100 105 110

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Gly Arg Val Thr Gly Ser Asp Gly Lys Leu Tyr His Ile Tyr Val Cys
115 120 125
Val Asp Gly Cys Ile Leu Leu Lys Leu Ala Lys Arg Gly Thr Pro Arg
130 135 140
Thr Leu Lys Trp Ile Arg Asn Phe Thr Asn Cys Pro Leu Trp Val Thr
145 150 155 160
Ser Cys Cys Asp Leu Pro Gln Thr His Ser Leu Gly Ser Arg Arg Thr
165 170 175
Leu Met Leu Leu Ala Gln Met Arg Arg Ile Ser Leu Phe Ser Cys Leu
180 185 190
Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu Glu Phe Gly Asn Gln
195 200 205
Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His Glu Met Ile Gln Gln
210 215 220
Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser Ala Ala Trp Asp Glu
225 230 235 240
Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr Gln Gln Leu Asn Asp
245 250 255
Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val Thr Glu Thr Pro Leu
260 265 270
Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys Tyr Phe Gln Arg Ile
275 280 285
Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro Cys Ala Trp Glu Val
290 295 300
Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu Ser Thr Asn Leu Gln
305 310 315 320
Glu Ser Leu Arg Ser Lys Glu
325